

F0926-US
(KOY-0021)

REMARKS

Claims 1, 3, and 5 were pending in the present application. Claim 1 has been amended and Claims 2, 4, and 6-13, which were previously withdrawn as a result of an earlier restriction requirement, are hereby canceled, leaving Claims 1, 3, and 5 pending in the present application. Support for the amendment can be found at least on page 25, the first three full paragraphs and in Table 1.

Reconsideration and allowance of the claims is respectfully requested in view of the above amendments and the following remarks.

Claim Rejection Under 35 U.S.C. § 102(b)

Claims 1, 3, and 5 stand rejected under 35 U.S.C. § 102(b), as allegedly unpatentable over U.S. Pat. Publication No. US 2002/0104974 to Hosoi (hereinafter "Hosoi"). Applicants respectfully traverse.

To anticipate a claim under 35 U.S.C. § 102, a single source must contain all of the elements of the claim. *Lewmar Marine Inc. v. Barient, Inc.*, 827 F.2d 744, 747, 3 U.S.P.Q.2d 1766, 1768 (Fed. Cir. 1987), *cert. denied*, 484 U.S. 1007 (1988).

Applicants' Claim 1 is directed to a radiographic image conversion panel comprising, *inter alia*, a density of activation metal atoms at an end of a photostimulable phosphor crystal and a density of activation metal atoms in the vicinity of the support satisfy a following formula 1:
$$\frac{D_{\text{end}}}{D_{\text{vic}}} < 1$$
 (the density of the activation metal atoms at the end of the photostimulable phosphor crystal)/(the density of the activation metal atoms in the vicinity of the support) < 1.

Hosoi fails to disclose at least this feature. Rather, Hosoi merely discloses different end profiles for the photostimulable crystals, e.g., a tapered profile. Although the amounts of activation metal atoms will be different at the ends relative to the vicinity of the support due to the differences in thickness, the density of activation metal atoms will be constant throughout the crystal structure.

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Accordingly, Applicants respectfully request the rejection applied to Claims 1, 3, and 5 be withdrawn.

Claim Rejection Under 35 U.S.C. § 102(a)

Claims 1, 3, and 5 stand rejected under 35 U.S.C. § 102(a) as being obvious over U.S. Pat. Pub. No. 2003/0155529 to Morikawa ("Morikawa"). Applicants respectfully traverse.

Morikawa, like Hosoi above, fails to disclose a radiographic image conversion panel comprising, *inter alia*, a density of activation metal atoms at an end of a photostimulable phosphor crystal and a density of activation metal atoms in the vicinity of the support satisfy a following formula 1: $0 \leq \frac{\text{(the density of the activation metal atoms at the end of the photostimulable phosphor crystal)}}{\text{(the density of the activation metal atoms in the vicinity of the support)}} < 1$. Like Hosoi, Morikawa also discloses different end profiles for the phosphor crystal. For reasons discussed above, the density of activation metal atoms at the ends relative to the vicinity of the support will be constant in these cited references. Thus, Applicants' claimed feature of "a density of activation metal atoms at an end of a photostimulable phosphor crystal and a density of activation metal atoms in the vicinity of the support satisfy a following formula 1: $0 \leq \frac{\text{(the density of the activation metal atoms at the end of the photostimulable phosphor crystal)}}{\text{(the density of the activation metal atoms in the vicinity of the support)}} < 1$." has not been disclosed.

Accordingly, the rejection is hereby requested to be withdrawn.

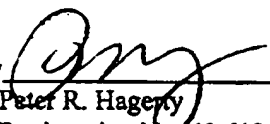
It is believed that the foregoing amendments and remarks fully comply with the Office Action and that the claims herein should now be allowable to Applicants. Accordingly, reconsideration and allowance is requested.

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If there are any additional charges with respect to this Amendment or otherwise, please charge them to Deposit Account No. 06-1130 maintained by Applicants' attorneys.

Respectfully submitted,

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